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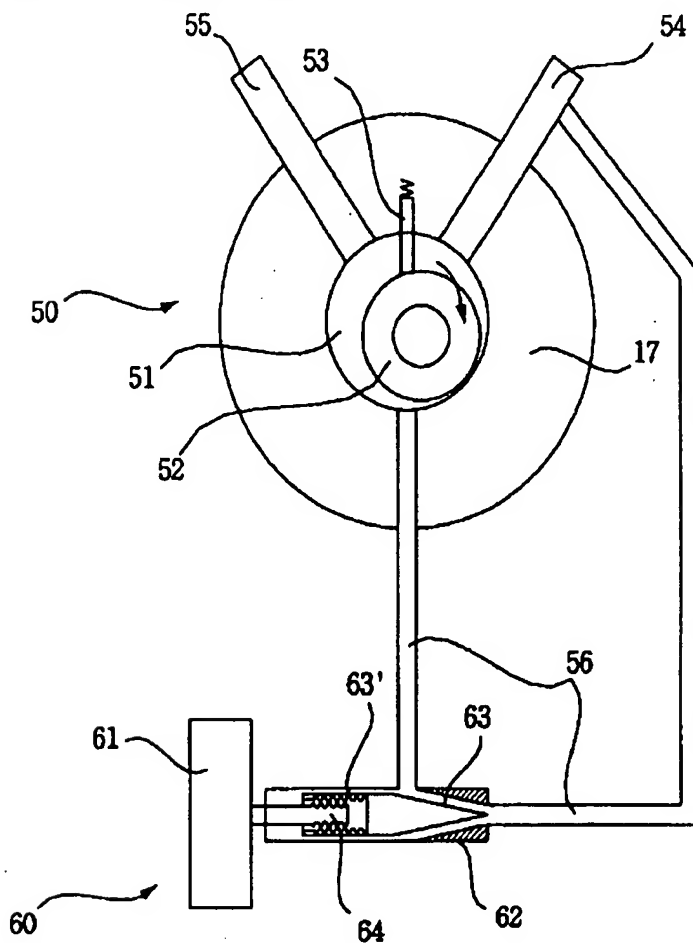
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(30) Priority:

(54) Title of Invention

VARIABLE CAPACITY TYPE ROTARY COMPRESSOR

Representative drawing



(57) Abstract:

PURPOSE: A variable capacity type rotary compressor is provided to perform an optimum operation without waste of energy by adjusting pressure applied to a flow rate control part in a multi-stage and by varying an opening rate of a return path to change capacity of the compressor according to the change of room temperature.

CONSTITUTION: A variable capacity type rotary compressor includes a refrigerant suction part(54) for introducing refrigerant gas of low pressure passing through an evaporator, a cylinder(51) for compressing the refrigerant gas, a roller(52) for compressing the refrigerant while rotating inside the cylinder, a vane(53) having an end in contact with the roller

and defining the inside of the cylinder into a high pressure part and a low pressure

part, a refrigerant discharge part(55) connected to a condenser to discharge the compressed refrigerant gas of high pressure, a return path(56) partially for returning the refrigerant of a high pressure part toward the refrigerant suction part, and a flow rate control part(60) for adjusting opening rate of the return path and controlling the flow rate of the returned refrigerant to change the compression capacity.

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